

Message Text

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15

ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NRC-05 NSAE-00 TRSE-00

EUR-12 ERDA-05 ISO-00 /030 R

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R 240108Z DEC 75

FM SECSTATE WASHDC

TO AMEMBASSY PARIS

INFO AMEMBASSY MOSCOW

C O N F I D E N T I A L STATE 302090

EXCON

E.O. 11652: XGDS-1

TAGS:ESTC, COCOM, UR

SUBJECT: EXPORT OF STC SLICING MACHINES TO THE USSR - IL

1355

REF: BEWT CASE NO. 173533(SILICON TECHNOLOGY CORP.)

1) THE UNITED STATES DELEGATION IS REQUESTED TO SUBMIT THE FOLLOWING URGENCY EXCEPTION CASE PURSUANT TO COCOM DOC. REG. (73)3, PARAGRAPH 4(B):

2) THE UNITED STATES AUTHORITIES HAVE BEEN ASKED TO APPROVE THE EXPORT TO THE USSR OF THE FOLLOWING EQUIPMENT WITH A TOTAL VALUE OF 1,413,097 DOLLARS AND COVERED BY IL 1355(B)(2):

35 TYPE INSIDE DIAMETER STC SLICING MACHINES MODEL 4.0 X 24
5 TYPE INSIDE DIAMETER STC UNIVERSAL MODEL SLICING MACHINES

10 SPARE PARTS KITS FOR ABOVE

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3) THIS EQUIPMENT IS CONSIGNED TO PLANT "START", B-66, MOSCOW, WHERE IT WILL BE USED IN THE SLICING OF CRYSTALS, MINERALS, GEMS, SEMICONDUCTOR MATERIALS, OR OTHER HARD MATERIALS.

4) THE STC INSIDE DIAMETER SLICING MACHINE IS BASED UPON THE DESIGN OF AN ABRASIVE CUTTING WHEEL THAT HAS AN OPEN-ING IN THE CENTER OF THE WHEEL. THE CUTTING EDGE IN THIS DESIGN IS MORE STABLE DUE TO IMPROVED STIFFENING OF THE WHEEL AS COMPARED WITH CONVENTIONAL OUTSIDE DIAMETER OR PERIPHERAL EDGE CUTTING WHEELS. ANOTHER ADVANTAGE RESULTS BECAUSE OF THE FACT THAT AN INSIDE DIAMETER CUTTING WHEEL CAN BE MADE THINNER THAN ONE THAT CUTS USING THE PERIPHERAL EDGE; HENCE, MATERIAL BEING CUT IS CON-SERVED DUE TO THE NARROW KERF. THIS REDUCTION IN MATERIAL LOSS IS IMPORTANT WHEN COSTLY OR RARE MATERIALS ARE BEING SLICED OR SECTIONED AND WHEN MAXIMIZED MATERIAL YIELDS ARE NECESSARY, E.G. GEM QUALITY MINERALS, TRANSDUCER GRADE QUARTZ, SEMICONDUCTOR RAW STOCKS, GEOLOGICAL SPECIMENS, ETC.

5) THE SUBJECT STC MACHINES ARE DESIGNED TO SLICE MATERIALS OR CRYSTALS HAVING A MAXIMUM DIAMETER OR DIMENSION OF 3.25 INCHES (82MM) IN STANDARD AND UNIVERSAL MODEL CONFIGURATIONS. MODIFIED BLADE MOUNTING ACCESSORIES CAN INCREASE THE CUTTING DIMENSION TO 4.0 INCHES (102MM). THE MACHINES HAVE BEEN DESIGNED AND BUILT TO PROVIDE A STABLE SUPPORT STRUCTURE DURING THE SLICING PROCESS SO THAT SLICE SURFACES ARE REGULAR AND PARALLEL WITHIN A GOOD DEGREE OF TOLERANCE. OBVIOUSLY, THE SURFACES OF THE CRYSTALS REPLICATES THE ROUGHNESS OF THE CUTTING WHEELS AND REQUIRE CONSIDERABLE POLISHING AND WORK BEFORE THEY CAN BE USED AS SPECIMENS FOR EVALUATION OR BASE WAFERS FOR SEMICONDUCTOR DEVICE PRODUCTION. THE MAIN DIFFERENCE BETWEEN THE STANDARD AND UNIVERSAL MODELS IS THAT THE UNIVERSAL MODEL IS DESIGNED FOR ADJUSTABLE WORKPIECE ORIENTATION OVER RANGE OF MINUS 10 DEGREES TO PLUS 64 DEGREES FROM THE TRUE HORIZONTAL POSITION. THIS FEATURE PROVIDES FOR THE SLICING OF ATOMICALLY MISORIENTED CRYSTALS OR TO SLICE CRYSTALS ALONG A PREDETERMINED AXIS. ALL OF THE MODES ARE DESIGNED

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TO BE RELIABLY ACCURATE WITH RESPECT TO SLICE THICKNESS, SURFACE PARALLELISM, AND FUNCTION REPEATABILITY. BROCHURES DESCRIBING THE SUBJECT EQUIPMENT HAVE BEEN DEPOSITED WITH THE SECRETARIAT.

6) THE UNITED STATES AUTHORITIES CONSIDER THIS EXPORT REASONABLE AND APPROPRIATE FOR THE STATED END USE. THEY WISH TO APPROVE IT UNDER THE URGENCY PROCEDURE SET FORTH IN

COCOM DOC. REG.(73)3, PARAGRAPH 4(B), AND WOULD APPRECIATE
THE VIEWS OF MEMBER GOVERNMENTS.

7) FYI-URGENCY PROCEDURE REQUESTED SINCE APPLICANT WILL
LOSE ORDER IF NOT SHIPPED BY YEAR'S END. (RECOGNIZE TIME

CONSTRAINTS AS INDICATED OECD P 32969. DEL REQUESTED,
HOWEVER, TO DO WHATEVER REASONABLY POSSIBLE.) BROCHURES
AIRMAILED FROM COMMERCE 12/23. END FYI KISSINGER

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NNN

Message Attributes

Automatic Decaptoning: X
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Current Classification: UNCLASSIFIED
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Draft Date: 24 DEC 1975
Decapton Date: 01 JAN 1960
Decapton Note:
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Disposition Approved on Date:
Disposition Authority: GarlanWA
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
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Disposition Event:
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Margaret P. Grafeld
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